

ABSTRACT

Disclosed are an electron beam irradiation apparatus and an electron beam irradiation method capable of easily curing at least part of a surface layer and/or a resin layer such as light transmitting layer, etc. thereunder, each composed of materials that are hard to be cured by irradiation of ultraviolet rays. Disclosed also are a disc-shaped object manufacturing apparatus and a disc-shaped object manufacturing method capable of efficiently forming, on the disc-shaped object, at least part of a surface layer and/or a resin layer such as light transmitting layer, etc. thereunder, each composed of materials that are hard to be cured by the irradiation of ultraviolet rays. An electron beam irradiation apparatus 1 comprises a rotary driving unit 17 for rotationally driving an object 2 to be rotated, a shield container 10 for rotatably accommodating the object, and an electron beam irradiation unit 11 provided in the shield container so that the surface of the object is irradiated with electron beams from an irradiation window 11a thereof, wherein the surface of the object is irradiated with the electron beams during its rotation from the irradiation window of the electron beam irradiation unit. The surface of the on-rotating object can be thereby irradiated with the electron beams having larger energy than the ultraviolet rays have.